AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A circuit comprising:

a static low-swing driver circuit to receive a full-swing input signal, to convert the full-swing input signal to a low-swing signal, and to transmit the low-swing signal, the driver circuit comprising:

an input line to receive the full-swing input signal;

an inverter coupled to a supply voltage, the input line coupled to an input of the inverter;

a delay element coupled to the supply voltage, the input line coupled to an input of the delay element, and a propagation delay associated with the delay element matching a propagation delay associated with the inverter;

a first transistor, a gate of the first transistor coupled to an output of the inverter and a drain of the transistor coupled to a first voltage, the first voltage less than the supply voltage;

a second transistor, a gate of the second transistor coupled to an output of the delay element and a drain of the second transistor coupled to a source of the first transistor at an output node; and

an output line coupled to the output node, the output line to transmit the lowswing signal; and

a dynamic receiver circuit to receive the low-swing signal and to convert the low-swing signal to a full-swing signal.

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2. (original) A circuit according to Claim 1, further comprising:

an interconnect coupled to the driver circuit and to the receiver circuit, the interconnect to receive the low-swing signal from the driver circuit and to transmit the low-swing signal to the receiver circuit,

wherein the interconnect does not comprise a repeater.

- 3. (cancelled)
- 4. (original) A circuit according to Claim 1, wherein the receiver circuit comprises a positive edge-triggered dynamic sense-amplifying flip-flop.
 - 5. (cancelled)
- 6. (original) A circuit according to Claim 1, wherein the receiver circuit comprises a true single phase clock-style positive edge-triggered level-restoring flip-flop.
- 7. (currently amended) A circuit according to Claim 6, wherein the receiver circuit comprises:

an input line to receive the low-swing signal;

an inverter coupled to V_{ss} and to a first voltage less than V_{cc} , the inverter coupled to a clock signal to control signal propagation through the inverter an input of the inverter coupled to the input line; and

a pull-up transistor coupled an output of the inverter and to V_{cc} ;

8. (cancelled)

9. (currently amended) A driver circuit comprising:

a driver input line to receive the a full-swing input signal;

an inverter coupled to a supply voltage, the input line coupled to an input of the inverter;

a delay element coupled to the supply voltage, the input line coupled to an input of the delay element, and a propagation delay associated with the delay element matching a propagation delay associated with the inverter;

a first transistor, a gate of the first transistor coupled to an output of the inverter and a drain of the transistor coupled to a first voltage, the first voltage less than the supply voltage;

a second transistor, a gate of the second transistor coupled to an output of the delay element and a drain of the second transistor coupled to a source of the first transistor at an output node; and

a driver output line coupled to the output node, the output line to transmit the <u>a</u>low-swing signal.

10. (original) A circuit according to Claim 9, further comprising:

an interconnect coupled to the driver output line, the interconnect to receive the lowswing signal from the driver circuit and to transmit the low-swing signal to a receiver circuit.

wherein the interconnect does not comprise a repeater.

11. (currently amended) A system comprising:

a microprocessor comprising:

a static low-swing driver circuit to receive a full-swing input signal, to convert the full-swing input signal to a low-swing signal, and to transmit the low-swing signal, the driver circuit comprising:

an input line to receive the full-swing input signal;

an inverter coupled to a supply voltage, the input line coupled to an input of the inverter;

a delay element coupled to the supply voltage, the input line coupled to an input of the delay element, and a propagation delay associated with the delay element matching a propagation delay associated with the inverter;

a first transistor, a gate of the first transistor coupled to an output of the inverter and a drain of the transistor coupled to a first voltage, the first voltage less than the supply voltage;

a second transistor, a gate of the second transistor coupled to an output of the delay element and a drain of the second transistor coupled to a source of the first transistor at an output node; and

an output line coupled to the output node, the output line to transmit the low-swing signal; and

a dynamic receiver circuit to receive the low-swing signal and to convert the lowswing signal to a full-swing signal; and

a double data rate memory coupled to the microprocessor.

12. (original) A system according to Claim 11, the microprocessor further comprising:

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an interconnect coupled to the driver circuit and to the receiver circuit, the interconnect to receive the low-swing signal from the driver circuit and to transmit the low-swing signal to the receiver circuit,

wherein the interconnect does not comprise a repeater.

13. (cancelled)

- 14. (original) A system according to Claim 11, wherein the receiver circuit comprises a positive edge-triggered dynamic sense-amplifying flip-flop.
- 15. (original) A system according to Claim 11, wherein the receiver circuit comprises a true single phase clock-style positive edge-triggered level-restoring flip-flop.
 - 16. (newly-added) A circuit comprising:

a static low-swing driver circuit to receive a full-swing input signal, to convert the full-swing input signal to a low-swing signal, and to transmit the low-swing signal; and

a dynamic receiver circuit to receive the low-swing signal and to convert the low-swing signal to a full-swing signal, the receiver circuit comprising:

a true single phase clock-style positive edge-triggered level-restoring flip-flop; an input line to receive the low-swing signal;

an inverter coupled to V_{ss} and to a first voltage less than V_{cc} , the inverter coupled to a clock signal to control signal propagation through the inverter an input of the inverter coupled to the input line; and

a pull-up transistor coupled an output of the inverter and to V_{cc} .